

MODULE 3 REPORT
INTERNET OF THINGS

PROGRAM NAME



Compiled By:

Group XX

- | | |
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| 1. Name | (NIM) |
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INDUSTRIAL ENGINEERING DEPARTEMENT FACULTY OF
ENGINEERING DIPONEGORO UNIVERSITY
SEMARANG

2023

ATTESTATION SHEET
MODULE 3 REPORT
INTERNET OF THINGS
PROGRAM NAME

Semarang, XX Desember 2023

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FOREWORD

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CHAPTER I

INTRODUCTION

1.1 Background

Background of the problem, an explanation of the Internet of Things, a brief definition of Arduino, the use of Arduino in the scenario, and the inputs and outputs used. A brief explanation of the program to be created and its application in everyday life. Reasons for choosing the program.

1.2 Problem Formulation

The formulation of the problem in making the program, written in short points.

1.3 Report Goals

The purpose of the report is written in short points according to the module.

1.4 Writing Systematics

Systematic classification of subjects into several sub-chapters.

CHAPTER I INTRODUCTION

In this chapter explain ...

CHAPTER II THEORETICAL BASIS

In this chapter explain ...

CHAPTER III FLOWCHART PROGRAM

In this chapter explain ...

CHAPTER IV SKETCH DAN PROGRAM ANALYSIS

In this chapter explain ...

CHAPTER V CONCLUSIONS AND SUGGESTIONS

In this chapter explain ...

CHAPTER II

THORETICAL BASIS

2.1 Arduino

2.1.1 Arduino Component Definition

Definition, types and use of Arduino components in the Internet of Things and its advantages (2 citations 1 conclusion).

2.1.2 Arduino Input Components

Explanation of Arduino input components (2 citations 1 conclusion), also explain the components you use in the scenario, written in the form of points and examples of using the input.

2.1.3 Arduino Output Components

Explanation of Arduino Output components (2 citations 1 conclusion), also explain the components you use in the scenario, written in the form of points and examples of the use of these outputs.

2.2 Arduino IDE

2.2.1 Arduino IDE Definition

Definition, usage, and advantages and disadvantages of the Arduino IDE (2 citations 1 conclusion).

2.2.2 Library in Arduino IDE

Definition and use of Arduino IDE libraries (2 citations 1 conclusion).

2.2.3 Arduino Syntax

Definition and use of Arduino syntax (2 citations 1 conclusion), along with examples.

2.3 Wireless

Definition of wireless in general (2 citations and 1 conclusion).

2.3.1 Wireless Bluetooth

Definition, usage and advantages in the context of bluetooth wireless used in this module.

2.3.2 HC – 05 Bluetooth

Definition, usage, advantages, and pins in HC - 05 and provide an explanation of the pins.(2 citations and 1 conclusion)

2.4 Scenario

Explanation of the scenario, reference and development of your group's scenario, and working concept.

CHAPTER III

FLOWCHART PROGRAM

3.1 Flowchart Program

Flowchart image of the compiled program.

3.2 Flowchart Explanation

Explanation of the program flowchart.

CHAPTER IV

SKETCH AND PROGRAM ANALYSIS

4.1 Program Sketch

Sketch program that has been created. (tinkercad)

4.2 Program Sketch Explanation

Explanation of the code used (in the form of points) and explanation of the sketch program thoroughly.

4.3 Program Analysis

Explanation of the analysis of the program that has been made along with the assembly image of the program made, the obstacles experienced while running, the advantages and disadvantages of the program made, suggestions for further development.

CHAPTER V

CONCLUSIONS AND SUGGESTIONS

5.1 Conclusions

5.2 Suggestions

BIBLIOGRAPHY

FORMATTING TERMS

- 4-4-3-2 Margin
- Chapter Title: Times New Roman 12 Bold, Spacing 1.5, Centered
- Subchapter Title: Times New Roman 12 Bold, 1.5 Spacing, Justified
- Text: Times New Roman 12, Spacing 1.5, Justified
- Table header bold, table content regular font size: 10
- Image caption: Times New Roman 10, Bold, Centered, write under the picture.
- Table caption: Times New Roman 10, Bold, Centered, write above the image
- Scientific tables
- Each table that continues on a different page is captioned (Continued) and a new table head.

Example of table caption:

Tabel 1. 1 XXX		
No	X	X
1.
2.

Tabel 1. 2 XXX (Continued)		
No	X	X
1.
2.

Example of image caption:

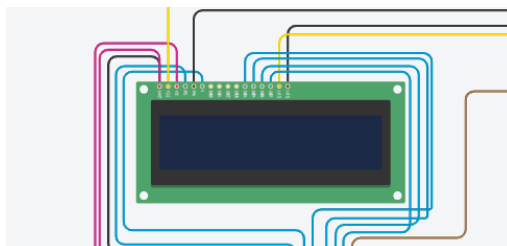


Figure 1. 1